RA6-200 (6V200Ah)

RA6-200 is a general purpose battery with 10 years floating design life, meet with IEC, JIS .BS and Eurobat standard. With heavy duty grid, thickness plates, special additives, RA series battery have long and reliable standby service life. Our RA Series batteries keep high consistent for better performance in series usage.

RITAR®

Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	200Ah@10hr-rate to 1.75V per cell @25°C
Weight	Approx. 29.0 Kg
Max. Discharge Current	2000A (5 sec)
Internal Resistance	Approx. 4.0 mΩ
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	6.8 to 6.9 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	60 A
Equalization and Cycle Service	7.3 to 7.4 VDC/unit Average at 25°C
Self Discharge	RITAR batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Terminal F14/F16
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.

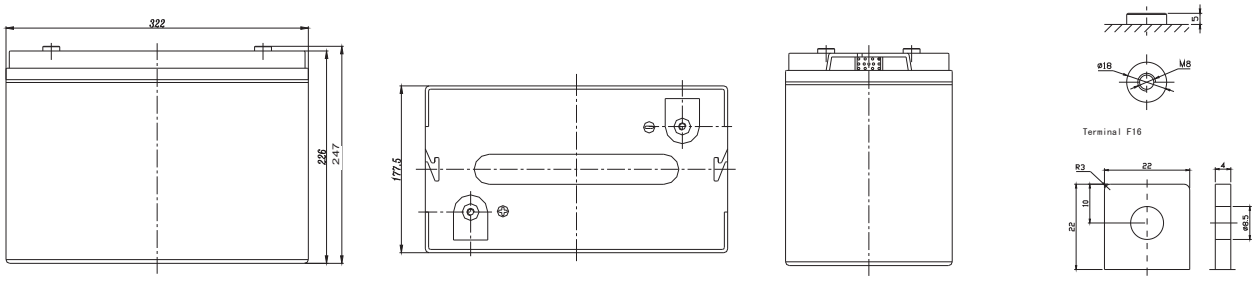
MH28539

G4M20206-0910-E-16

ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 322(L)×177.5(W)×247(H)



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	626.88	449.21	355.68	223.10	130.00	72.618	52.200	43.200	35.360	24.844	21.006	11.109
5.00V	610.12	427.42	348.38	219.41	129.40	72.072	52.000	43.000	35.152	24.642	20.804	10.907
5.10V	574.92	412.34	342.91	217.47	128.20	71.526	51.600	42.800	34.944	24.440	20.602	10.705
5.25V	516.26	380.49	326.50	212.04	127.00	70.980	51.400	42.400	34.528	24.238	20.400	10.503
5.40V	480.38	346.97	300.96	202.73	124.00	69.706	50.000	41.400	33.904	23.834	20.198	10.301
5.55V	418.18	310.09	269.95	189.93	117.80	66.612	47.800	39.400	32.448	22.824	19.592	9.6950

Constant Power Discharge Characteristics: W(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	2985	2250	1875	1233	743.4	417.7	301.2	249.6	204.7	144.1	118.1	62.38
5.00V	2924	2149	1836	1218	739.8	416.1	300.6	249.0	203.4	143.5	116.9	61.78
5.10V	2760	2078	1811	1203	734.4	412.2	298.8	247.8	202.8	142.3	116.3	61.17
5.25V	2486	1920	1727	1176	727.2	408.4	297.0	246.0	200.9	141.1	115.1	60.56
5.40V	2305	1743	1587	1122	709.2	402.4	289.8	239.4	197.8	138.1	113.9	59.96
5.55V	1990	1548	1417	1052	672.0	383.8	275.4	228.0	187.8	133.2	110.2	57.54

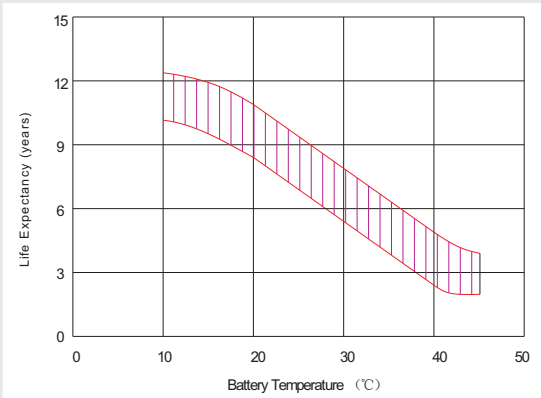
All mentioned values are average values.

RA6-200

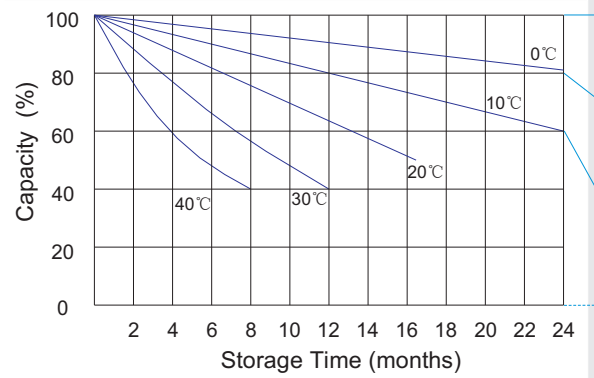
6V200Ah

RITAR®

Effect of temperature on long term float life



Storage characteristic



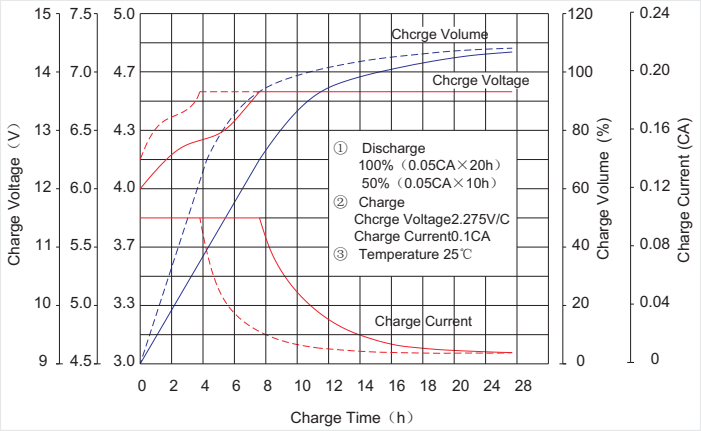
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is requires)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

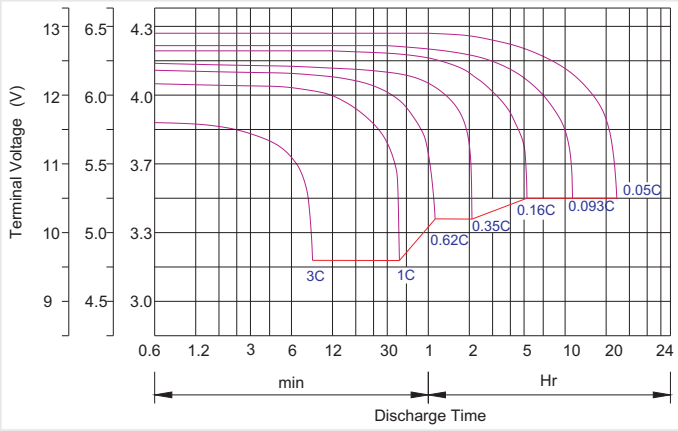
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

Battery Type		-20℃	-10℃	0℃	5℃	10℃	20℃	25℃	30℃	40℃	45℃
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	（A）≤0.2C	0.2C＜（A）＜1.0C	（A）≥1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h+2.4-2.45V/cellx24h,Max. Current 0.3CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h

Maintenance & Cautions

Float Service:

※ Every month, recommend inspection every battery voltage.

※ Every three months, recommend equalization charge for one time.

Equalization charge method:

Discharge: 100% rate capacity discharge.

Charge: Max. current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24h.

※ Effect of temperature on float charge voltage: -3mV/℃/Cell.

※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.

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